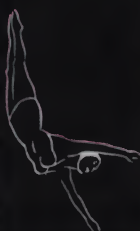




SUPERMARKETS



SWIMMING POOLS



OFFICES



SPORTS ARENAS



REYNOLDS *Lifetime*[®] ALUMINUM

COMMERCIAL
CORRUGATED
AND
PYRAMID
ACOUSTICAL SYSTEMS



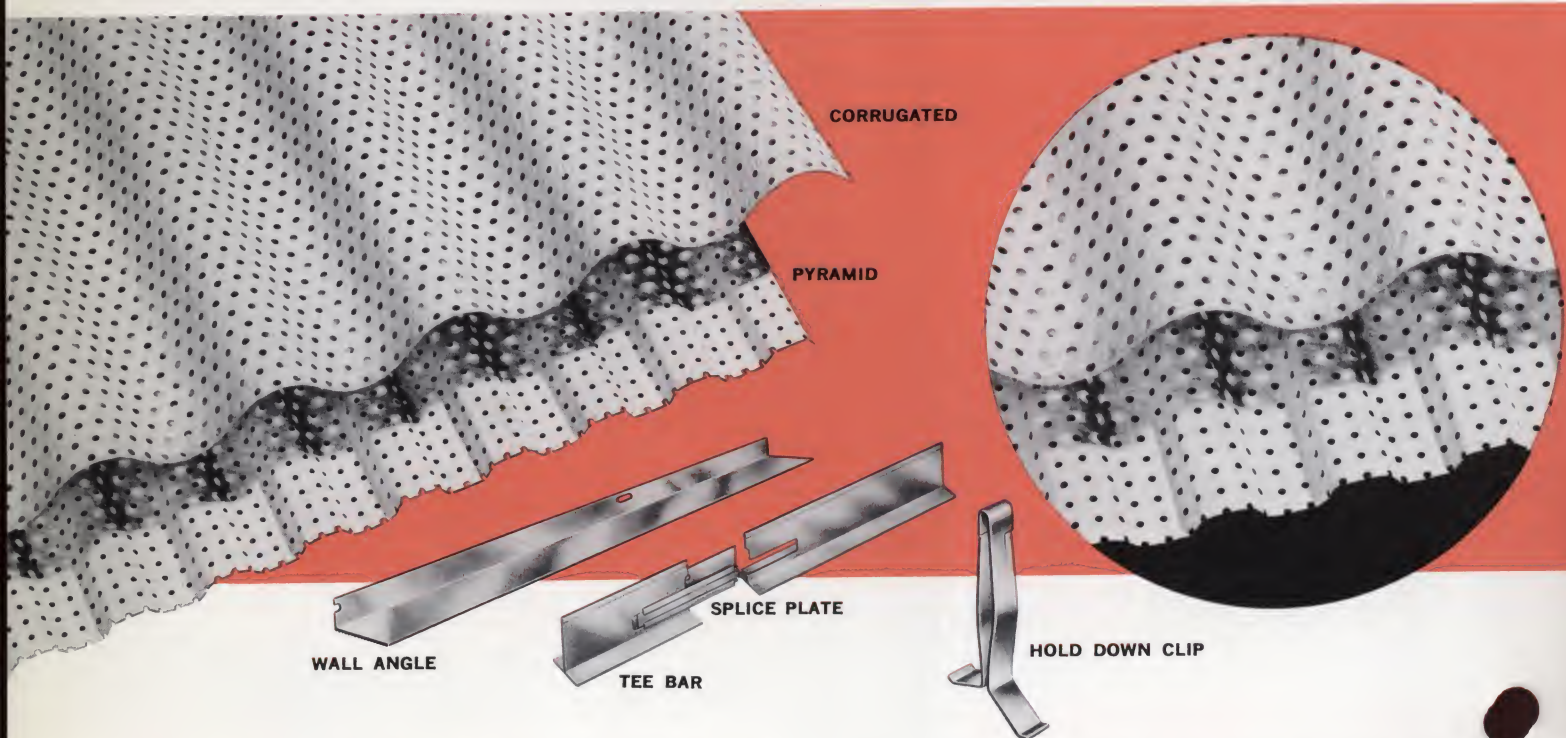
REYNOLDS METALS COMPANY

General Office

RICHMOND 18, VIRGINIA



COMMERCIAL CORRUGATED AND PYRAMID ACOUSTICAL SYSTEMS



The architect who plans for efficient sound conditioning has at his command a wide range of materials for acoustical correction and noise reduction. For any specific application he must judge all these materials not only from the standpoint of appearance but for performance, combustibility, maintenance, and cost.

More and more architects and engineers are turning to the Reynolds Acoustical Systems as the practical answer to their sound conditioning considerations in commercial, educational, recreational, and industrial buildings.

GENERAL INFORMATION

FINISHES—All Reynolds products are available in natural aluminum or baked-on white enamel.

NOISE REDUCTION—When used in conjunction with Acoustical Sound Absorbent Blanket, excellent noise reduction is achieved as evidenced by the tests as shown.

EASE OF INSTALLATION—Reynolds large and lightweight panels permit swift installation, thus permitting early occupancy for new projects and a minimum of shut-down time for remodeled structures.

ACCESSIBILITY—Individual Reynolds Acoustical

panels are easily removed to provide large access areas to utilities which may be concealed above.

MAINTENANCE—The Reynolds Acoustical Systems panels can be readily cleaned with a damp cloth. If necessary, the sheets may be removed and cleaned. They may be painted repeatedly without affecting the sound absorbent qualities of the installation.

INCOMBUSTIBILITY—Each carton of Reynolds materials bears the label of Underwriter Laboratories, Inc., whose report states in part "The acoustical panels described in this report will not spread flame, contribute fuel or develop smoke." Copies of this report available upon request.

THERMAL INSULATION—In addition to its noise reduction qualities, Reynolds sound absorbing blanket provides additional thermal insulation.

LIGHTWEIGHT—A complete Reynolds Acoustical System weighs less than 1# per square foot. Consideration of this factor may permit the lightening of structural members or make this product particularly appropriate in older buildings where installed weight is a definite problem.

MOISTURE RESISTANCE—The Reynolds Systems are especially desirable in areas of high humidity such as swimming pools, steam kitchens, shower and locker rooms, etc. In those areas where chlorine

REYNOLDS *Lifetime*® ALUMINUM COMMERCIAL BUILDING PRODUCTS

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fumes are present, panels should be furnished with all surfaces finished in baked-on white enamel.

ADAPTABILITY—The Reynolds Acoustical Systems readily adapt themselves to integration with various types of lighting fixtures and with air conditioning and heating systems. Conditioned air may be passed directly through the acoustical ceiling.

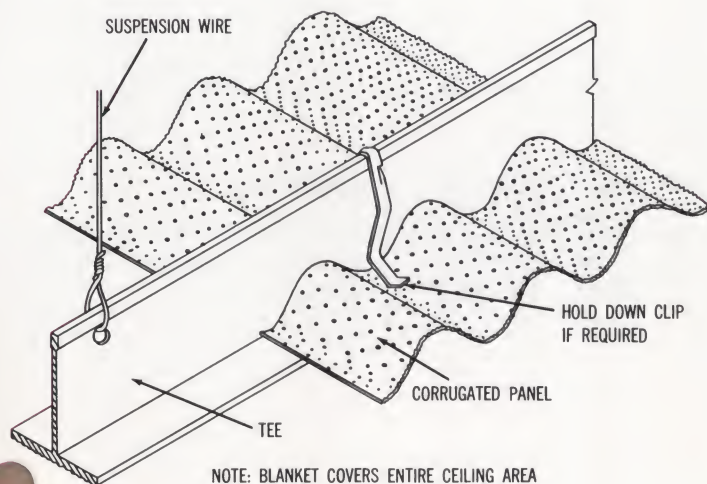
SUSPENSION—Galvanized steel wire (No. 9, W & M gauge), galvanized steel strap or aluminum wire hangers are to be spaced a maximum of 72" along each tee. Where tee sections support lighting fixtures, the spacing should not exceed 36".

REFLECTIVITY—The light reflection value of Reynolds natural aluminum finish is 71%—or baked-on white enamel, 76%.

REYNOLDS PRODUCTS

Reynolds Metals Company now offers three basic acoustical systems: (1) Corrugated Panels, (2) Pyramid Panels, and (3) Pyramid Pans, and accessories.

CORRUGATED PANELS—.024" thick stucco embossed aluminum sheets corrugated to 2.67" pitch, $\frac{7}{8}$ " depth perforated with $\frac{1}{8}$ " holes $\frac{5}{16}$ " on staggered centers. The panel width is $33\frac{3}{4}$ " giving a nominal coverage of 32" with one corrugation side lap. Standard panels are available in $71\frac{5}{8}$ ", $95\frac{5}{8}$ ", and 144" lengths.

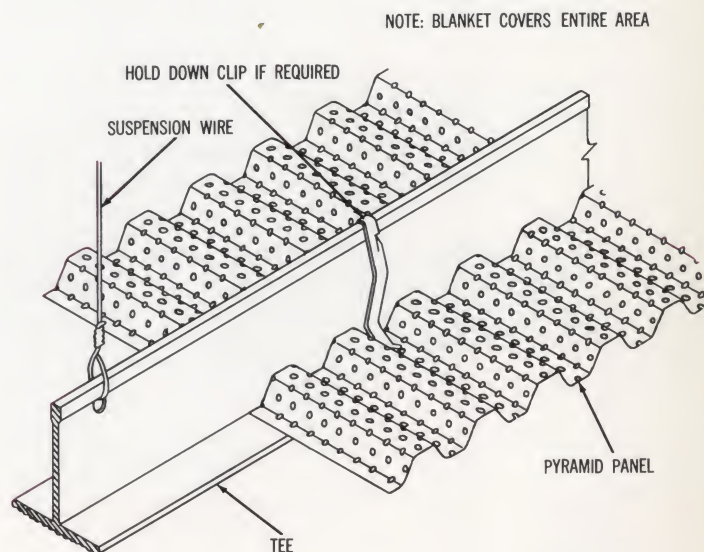


Corrugated panels are designed to be used with Reynolds tees and angles, and are not recommended for unsupported horizontal spans exceeding 8'0".

The sound absorbing blanket is provided in several thicknesses to accommodate varying requirements. The performance of the corrugated panels, when used with each of the blankets, as determined by Riverbank Acoustical Laboratory, is shown below.

¾ # DENSITY							
Blanket Thickness	COEFFICIENTS—NO. 7 MOUNTING						NRC SPEC. RANGE
	125 CPS	250 CPS	500 CPS	1000 CPS	2000 CPS	4000 CPS	
1"	.41	.59	.63	.65	.74	.71	65-75
1½"	.59	.75	.74	.80	.81	.80	75-85
2"	.71	.85	.84	.88	.87	.87	85-95

PYRAMID PANELS—.024" thick stucco embossed aluminum ribbed to $\frac{3}{8}$ " depth, $11\frac{1}{2}$ " pitch, perforated with .094" diameter holes on $9\frac{1}{32}$ " straight centers. The panel width is $34\frac{1}{2}$ " giving a nominal coverage of 33" with one rib side lap. Standard panels are available in $47\frac{5}{8}$ ", $59\frac{5}{8}$ ", and 144" lengths. Pyramid Panels $66\frac{1}{4}$ " long are available for bowling lane installations.





COMMERCIAL CORRUGATED AND PYRAMID ACOUSTICAL SYSTEMS

Pyramid panels are designed to be used with Reynolds tees and angles, and are not recommended for unsupported horizontal spans exceeding 5'6 $\frac{1}{4}$ ".

The acoustical performance of the Pyramid Panels, when used with each of the sound absorbing blankets, as determined by Riverbank Acoustical Laboratory, is shown below.

¾# DENSITY							
Blanket Thickness	COEFFICIENTS—NO. 7 MOUNTING						NRC SPEC. RANGE
	125 CPS	250 CPS	500 CPS	1000 CPS	2000 CPS	4000 CPS	
1"	.44	.67	.63	.68	.76	.68	65-75
1½"	.52	.79	.74	.82	.84	.78	80-90
2"	.72	.85	.85	.93	.91	.85	85-95

PYRAMID PANS—Stucco embossed aluminum ribbed to $\frac{3}{8}$ " depth, 1 $\frac{1}{2}$ " pitch, perforated with .094" diameter holes on $\frac{9}{32}$ " straight centers in sizes and thicknesses shown below.

2'0" x 2'0" Grid Size .019" x 23 $\frac{3}{4}$ " x 23 $\frac{3}{4}$ "

2'0" x 4'0" Grid Size .019" x 23 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ "

4'0" x 4'0" Grid Size .024" x 47 $\frac{3}{4}$ " x 47 $\frac{3}{4}$ "

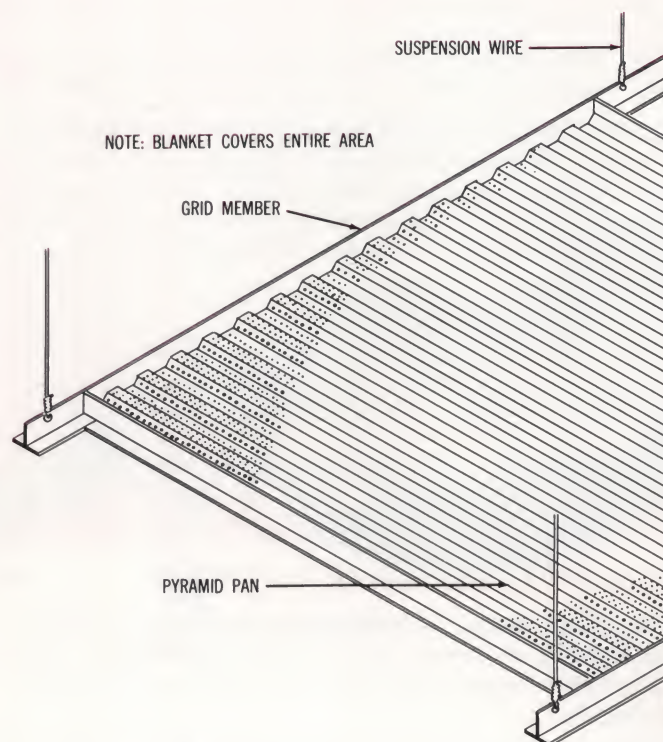
Pyramid pans are designed to be used with grid systems now on the market.

The acoustical performance of these pans is the same as shown for the Pyramid Panels above.

ACCESSORIES

TEE BAR—Extruded aluminum, 2" reeded flange x 2 $\frac{1}{2}$ " web x $\frac{1}{16}$ " thick in 6063-T5 alloy. Standard lengths of 12'0" are punched to receive splice plate.

WALL ANGLE—Extruded aluminum, 2" reeded exposed leg x 1" concealed leg x $\frac{1}{16}$ " thick in 6063-T5 alloy. The concealed leg is punched 48" OC for attachment to wall. Standard length is 12'0".



SPLICE PLATE—Extruded aluminum, $\frac{1}{16}$ " thick x 5" x 1 $\frac{3}{4}$ " in 6063-T5 alloy.

HOLD DOWN CLIP—A painted spring steel clip designed to fit over the web of the tee and secure adjoining panels is available if required.

SOUND ABSORBENT BLANKET—The sound absorbent blanket is available in $\frac{3}{4}$ # density per cubic foot. This incombustible blanket consists of glass fiber with a plastic binder that prevents sifting and disintegration.

WRITE FOR DATA PAGES

Complete specifications, installation instructions, etc., are available to you without charge. Simply request them on your letterhead.



REYNOLDS METALS COMPANY
GENERAL OFFICE
RICHMOND 18, VIRGINIA



COMMERCIAL CORRUGATED AND PYRAMID ACOUSTICAL SYSTEMS

Pyramid panels are designed to be used with Reynolds tees and angles, and are not recommended for use with angles less than 5'6 1/4".

The acoustic panels, when used with absorbing blankets, are available in Acoustical Laboratory.

Blanket Thickness	COEFFICIENT OF ACOUSTIC ABSORPTION	
	125 CPS	2000 CPS
1"	.44	.72
1 1/2"	.52	.72
2"	.72	.72

PYRAMID PANS—Pyramid pans are available in 3/8" depth, 1/2" diameter holes and thicknesses shown below.

2'0" x 2'0" G
2'0" x 4'0" G
4'0" x 4'0" G

Pyramid pans are available in systems now on the market. The acoustical properties are the same as shown above.

ACCESSORIES

TEE BAR—Extruded aluminum, 2 1/2" web x 1/2" flange, and lengths of 12' and 24'.

WALL ANGLE—Extruded aluminum, 1" leg x 1" corner, alloy. The concealed attachment to wall is made by a bolt and nut.

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From the collection of:

Mike Jackson, FAIA



1/2" thick x

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Instructions,
Simply



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